Stewardship Science Academic Alliances Program

List of Grantees

Title	Principal University
Centers of Excellence	<u>F</u>
Center for the Study of Pulsed-Power-Driven High	Cornell University
Energy Density Plasmas	<u>comen emiteraty</u>
The Texas Center for High Intensity laser Science	University of Texas -Austin
Center of Excellence for High Pressure Science	Carnegie Institution of Washington
and Technology	
Center of Excellence for Radioactive Ion Beam	Rutgers University
Studies for Stewardship Science	
Research Grants	
Electron Interactions in Actinides and Related	Florida State University
Systems under Extreme Conditions	, ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,
Development of Designer Diamond Anvil	University of Alabama – Birmingham
Technology for High Pressure-High Temperature	
Experiments in Support of the Stockpile	
Stewardship Program	
Experimental Investigation of Magnetic,	<u>University of California – San Diego</u>
Superconducting, and Other Phase Transitions in	
Novel f-Electron Materials at Ultra-high pressures	
Using Designer Diamond Anvils	
Micro- and Nano- Structure Development and	The Ohio State University
Multiscale Physics at Sliding Metal Interfaces	
Microstructures and properties of materials under	University of Illinois – Urbana/Champaign
repeated laser irradiation	
High-Pressure Thermodynamic Properties of f-	University of California - Davis
Electron Metals, Transition Metal Oxides, and	
Half-Metallic Magnets	
Determining the Mechanical Constitutive	<u>University of Illinois – Urbana/Champaign</u>
Properties of Metals as a Function of Strain Rate	
and Temperature: A Combined Experimental and	
Modeling Approach	Hairmaita of Wissensin Medican
Investigation of the Rayleigh-Taylor and Richtmyer-Meshkov Instabilities	<u>University of Wisconsin – Madison</u>
	Hairmaite of California I as Amarlas
Continuation of the Application of Parallel PIC Simulations to Laser and Electron Transport	University of California - Los Angeles
Through Plasmas Under Conditions Relevant to	
ICF and SBSS	
Coherent Imaging of Laser Plasma Interactions	<u>University of Colorado – Boulder</u>
using XUV High Harmonic Radiation	Chronity of Colorado Boulder
Studies of the Nonlinear Interactions between	Polymath Research Inc.
Optical-Mixing-Controlled Stimulated Scattering	
Instabilities in Laser-Produced Plasmas	
Detailed Measurements of Turbulent Rayleigh-	Texas A&M University
Taylor Mixing at Large and Small Atwood	
Numbers	
Nuclear Probing of Dense Plasmas	Massachusetts Institute of Technology
Hydrodynamics and Radiative Hydrodynamics	<u>University of Michigan</u>
with Astrophysical Applications	
Dense Plasma Studies with Ultra-bright soft X-	Colorado State University
Ray Laser Probes	
Measurements of Neutron-induced Reaction Cross	Duke University
Sections	
Studies in Low Energy Nuclear Science	Ohio University

Neutron Capture Experiments on Unstable Nuclei	University of California - Berkeley
Nuclear Level Densities and γ-Ray Strength	North Carolina State University
Functions	
Proton Radiography: Cross Section Measurements	University of Michigan
and Prototype Detector Development	
Nuclear Reaction Measurements with Radioactive	University of California - Berkeley
Beams and Targets	
Measurements of the Energy, Mass, Charge and	Rensselaer Polytecnic Institute
Angular Distribution of Fission Fragments as a	
Function of Energy Using a Lead Slowing Down	
Spectrometer	
Measurement of Fission Neutron Multiplicities	Oregon State University
and Energy Spectra for Actinide Nuclei	
Nuclear Stewardship Research	University of Richmond (formerly at Yale University)
Nuclear Level Densities for Modeling Nuclear	San Diego State University Foundation
Reactions: An efficient Approach Using	
Statistical Spectroscopy	
Theoretical Description of the Fission Process	<u>University of Tennessee</u>
Fundamental Issues in the Interaction of Intense	Discotor Heimit
lasers with Plasma	Princeton University
	University of Colifornia Con Diego
Comprehensive Modeling of Laser-Plasma Interaction Relevant to the NIF Ignition Program	University of California - San Diego
and the NIF-Based Stockpile Stewardship Program	
An Experimental Study of the Turbulent	University of Arizona
Development of Rayleigh-Taylor and Richtmyer-	Oniversity of Affzona
Meshkov Instabilities	
Mutual Interactions Between Finite Laser Beams	University of California – Los Angeles
in Plasmas	University of Camornia – Los Angeles
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